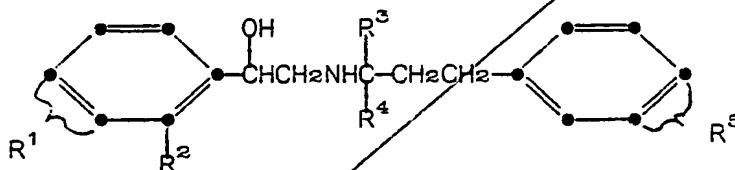


CM We claim:

1. A method for promoting the growth of an animal comprising administering to the animal a growth promoting amount of a compound having the formula



wherein:

R^1 is hydrogen, hydroxy, or methoxy;
 R^2 is hydrogen or fluoro;
 R^3 is hydrogen or C_1 - C_2 alkyl;
 R^4 is hydrogen or methyl;
 R^5 is hydrogen, fluoro, nitro, hydroxy, SO_2CH_3 or $CONH_2$; provided that R^1 is hydrogen only when R^5 is nitro or SO_2CH_3 ; and the acid addition salts thereof.

2. The method of Claim 1 employing a compound wherein R^1 is hydrogen.

3. The method of Claim 2 employing a compound wherein R^3 is hydrogen or methyl.

4. The method of Claim 3 employing a compound wherein R^2 is hydrogen.

5. The method of Claim 4 employing a compound wherein R^5 is nitro.

6. The method of Claim 3 employing a compound wherein R^2 is fluoro.

7. The method of Claim 1 employing a compound wherein R^1 is hydroxy.

8. The method of Claim 7 employing a compound wherein R^2 is hydrogen.

9. The method of Claim 8 employing a compound wherein R^3 is hydrogen and R^4 is methyl.

10. The method of Claim 9 employing a compound wherein R^5 is hydroxy.

11. The method of Claim 10 employing 1-(4-hydroxyphenyl)-2-[1-methyl-3-(4-hydroxyphenyl)propylamino]ethanol.

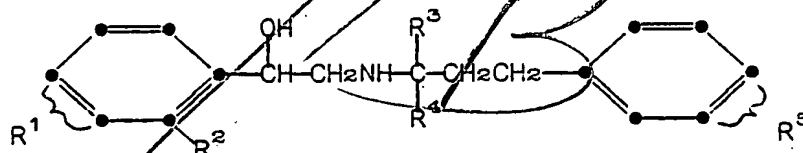
12. The method of Claim 11 employing 1-(4-hydroxyphenyl)-2-[1-methyl-3-(4-hydroxyphenyl)propylamino]ethanol hydrochloride.

13. The method of Claim 1 wherein the animal species treated is swine.

14. The method of Claim 1 wherein the animal species treated is poultry.

15. The method of Claim 1 wherein the animal species treated is a ruminant.

16. A method for improving the efficiency of feed utilization by domesticated animals comprising administering an effective amount of a compound of the formula



wherein:

- R^1 is hydrogen, hydroxy, or methoxy;
 R^2 is hydrogen or fluoro;
 R^3 is hydrogen or C_1-C_2 alkyl;
 R^4 is hydrogen or methyl;
 R^5 is hydrogen, fluoro, nitro, hydroxy,
 SO_2CH_3 or $CONH_2$; provided that R^1 is hydrogen only when
 R^4 is nitro or SO_2CH_3 ; and the acid addition salts
 thereof.

17. The method of Claim 16 employing a compound wherein R^2 is hydrogen, R^3 is hydrogen or methyl and R^4 is methyl.

18. The method of Claim 17 employing a compound wherein R^1 is hydrogen.

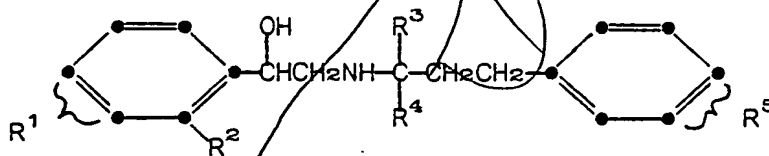
19. The method of Claim 17 employing a compound wherein R^1 is hydroxy.

20. The method of Claim 19 employing a compound wherein R^5 is hydroxy.

21. The method of Claim 19 employing a compound wherein R^5 is fluoro.

22. The method of Claim 19 employing a compound wherein R^5 is $CONH_2$.

423. A method for improving leanness in domesticated animals comprising administering an effective amount of a compound of the formula



wherein:

- 5 R^1 is hydrogen, hydroxy, or methoxy;
 R^2 is hydrogen or fluoro;
 R^3 is hydrogen or C_1 - C_2 alkyl;
 R^4 is hydrogen or methyl;
 R^5 is hydrogen, fluoro, nitro, hydroxy,
 SO_2CH_3 or $CONH_2$; provided that R^1 is hydrogen only when
 R^5 is nitro or SO_2CH_3 ; and the acid addition salts
 thereof.

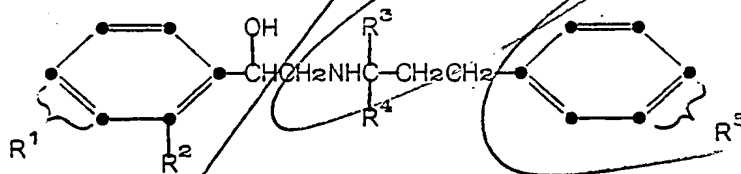
10 24. The method of Claim 23 employing a com-
 pound wherein R^2 is hydrogen, R^3 is hydrogen or methyl
 and R^4 is methyl.

25. The method of Claim 24 employing a com-
 pound wherein R^1 is hydrogen.

15 26. The method of Claim 24 employing a com-
 pound wherein R^1 is hydroxy.

27. The method of Claim 26 employing a com-
 pound wherein R^5 is hydroxy.

20 28. An animal feedstuff comprising a β -phen-
 ethanolamine of the formula



wherein:

- 25 R^1 is hydrogen, hydroxy, or methoxy;
 R^2 is hydrogen or fluoro;
 R^3 is hydrogen or C_1 - C_2 alkyl;
 30

R^4 is hydrogen or methyl;

R^5 is hydrogen, fluoro, nitro, hydroxy, SO_2CH_3 or $CONH_2$; provided that R^1 is hydrogen only when R^4 is SO_2CH_3 or nitro; and the acid addition salts thereof.

5

29. The feedstuff according to Claim 28 employing a compound wherein R^1 is hydrogen and R^3 is hydrogen or methyl.

30. The feedstuff according to Claim 28 employing a compound wherein R^1 is hydroxy.

10

31. The feedstuff according to Claim 30 employing a compound wherein R^2 is hydrogen, R^3 is hydrogen or methyl and R^4 is methyl.

32. The feedstuff according to Claim 31 employing a compound wherein R^5 is hydroxy.

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33. The feedstuff of Claim 32 employing 1-(4-hydroxyphenyl)-2-[1-methyl-3-(4-hydroxyphenyl)-propylamino]ethanol.

34. The feedstuff of Claim 32 employing 1-(4-hydroxyphenyl)-2-[1-methyl-3-(4-hydroxyphenyl)-propylamino]ethanol hydrochloride.

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25

30

add
D¹

add B² + B³